

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2005/008870

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01N15/14 G01N21/64 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	GEORGE THADDEUS C ET AL: "Distinguishing modes of cell death using the ImageStream multispectral imaging flow cytometer." CYTOMETRY. PART A : THE JOURNAL OF THE INTERNATIONAL SOCIETY FOR ANALYTICAL CYTOLOGY. JUN 2004, vol. 59, no. 2, June 2004 (2004-06), pages 237-245, XP002334770 ISSN: 1552-4922 the whole document	1-28
X	US 2004/021868 A1 (ORTYN WILLIAM E ET AL) 5 February 2004 (2004-02-05)	1-23, 25-27
Y	paragraphs '0011!', '0063!' - '0069!', '0078!' - '0080!', '0107!', '0121!', '0135!' - '0138!; figure 5	24, 28
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

5 July 2005

Date of mailing of the international search report

19/07/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Duijs, E

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2005/008870

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 316 793 A (LEIST, CHRISTIAN; BALZER, ANDREAS) 4 June 2003 (2003-06-04)	8,10-16, 18-23,27
Y	paragraphs '0005! - '0011!, '0029! - '0032!, '0050!, '0055!, '0062! - '0064!; figures 1,4	24,28
Y	WO 95/20148 A (COULTER CORPORATION) 27 July 1995 (1995-07-27)	24,28
A	page 7, line 31 - line 37	
A	page 2, line 29 - line 33	3,10,18
A	MAJNO G ET AL: "APOPTOSIS ONCOSIS AND NECROSIS AN OVERVIEW OF CELL DEATH" AMERICAN JOURNAL OF PATHOLOGY, PHILADELPHIA, PA, US, vol. 146, no. 1, January 1995 (1995-01), pages 3-15, XP000884170 ISSN: 0002-9440 the whole document	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/008870

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2004021868	A1	05-02-2004	US 2002071121 A1	13-06-2002
			US 2001021018 A1	13-09-2001
			US 6211955 B1	03-04-2001
			US 6249341 B1	19-06-2001
			US 2004218184 A1	04-11-2004
			EP 1334338 A2	13-08-2003
			JP 2004522163 T	22-07-2004
			WO 02101339 A2	19-12-2002
			US 2002030812 A1	14-03-2002
			AU 1199401 A	31-07-2001
			CA 2401614 A1	26-07-2001
			EP 1272822 A1	08-01-2003
			WO 0153783 A1	26-07-2001
			AU 772331 B2	22-04-2004
			AU 1196901 A	31-07-2001
			CA 2395627 A1	26-07-2001
			EP 1257794 A1	20-11-2002
			JP 2003520954 T	08-07-2003
			WO 0153784 A1	26-07-2001
			US 2003137661 A1	24-07-2003
			US 6580504 B1	17-06-2003
			US 2004080748 A1	29-04-2004
			AU 1189802 A	22-04-2002
			AU 1189902 A	22-04-2002
			AU 1191302 A	22-04-2002
			AU 1315702 A	22-04-2002
			EP 1330650 A2	30-07-2003
			JP 2004532969 T	28-10-2004
			WO 0231583 A1	18-04-2002
			WO 0231182 A2	18-04-2002
			WO 0231501 A1	18-04-2002
			WO 0231467 A1	18-04-2002
			US 2002094116 A1	18-07-2002
			US 2002127603 A1	12-09-2002
			US 2002057432 A1	16-05-2002
			US 2002051070 A1	02-05-2002
EP 1316793	A	04-06-2003	EP 1316793 A1	04-06-2003
WO 9520148	A	27-07-1995	AU 1566995 A	08-08-1995
			EP 0745217 A1	04-12-1996
			JP 9508270 T	26-08-1997
			WO 9520148 A1	27-07-1995

## PCT REQUEST

Original (for SUBMISSION)

VIII-2-1	<b>Declaration: Entitlement to apply for and be granted a patent</b> Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(iii)). In a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	<b>in relation to this international application</b>  AMNIS CORPORATION is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i) v)		an assignment from GEORGE, Thaddeus, C. to AMNIS CORPORATION, dated 11 June 2004 (11.06.2004)
VIII-2-1(i) v)		an assignment from BASIJI, David, A. to AMNIS CORPORATION, dated 17 June 2004 (17.06.2004)
VIII-2-1(i) v)		an assignment from HALL, Brian, E. to AMNIS CORPORATION, dated 08 June 2004 (08.06.2004)
VIII-2-1(i) v)		an assignment from ORTYN, William, E. to AMNIS CORPORATION, dated 08 June 2004 (08.06.2004)
VIII-2-1(i) v)		an assignment from SEO, Michael, J. to AMNIS CORPORATION, dated 11 June 2004 (11.06.2004)
VIII-2-1(i) v)		an assignment from MORRISSEY, Philip, J. to AMNIS CORPORATION, dated 11 June 2004 (11.06.2004)
VIII-2-1(i) v)		an assignment from ZIMMERMAN, Cathleen, A. to AMNIS CORPORATION, dated 07 June 2004 (07.06.2004)
VIII-2-1(i) x)	This declaration is made for the purposes of:	all designations except the designation of the United States of America

## PCT REQUEST

Original (for SUBMISSION)

VIII-3-1	<b>Declaration: Entitlement to claim priority</b> Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(ii)) Name	<b>in relation to this international application</b>  <b>AMNIS CORPORATION</b> <b>is entitled to claim priority of earlier application No. 60/553,502 by virtue of the following:</b>
VIII-3-1(i) v)		<b>an assignment from GEORGE, Thaddeus, C. to AMNIS CORPORATION, dated 11 June 2004 (11.06.2004)</b>
VIII-3-1(i) v)		<b>an assignment from BASIJI, David, A. to AMNIS CORPORATION, dated 17 June 2004 (17.06.2004)</b>
VIII-3-1(i) v)		<b>an assignment from HALL, Brian, E. to AMNIS CORPORATION, dated 08 June 2004 (08.06.2004)</b>
VIII-3-1(i) v)		<b>an assignment from ORTYN, William, E. to AMNIS CORPORATION, dated 08 June 2004 (08.06.2004)</b>
VIII-3-1(i) v)		<b>an assignment from SEO, Michael, J. to AMNIS CORPORATION, dated 11 June 2004 (11.06.2004)</b>
VIII-3-1(i) v)		<b>an assignment from MORRISSEY, Philip, J. to AMNIS CORPORATION, dated 11 June 2004 (11.06.2004)</b>
VIII-3-1(i) v)		<b>an assignment from ZIMMERMAN, Cathleen, A. to AMNIS CORPORATION, dated 07 June 2004 (07.06.2004)</b>
VIII-3-1(i) x)	<b>This declaration is made for the purposes of:</b>	<b>all designations</b>

## PCT REQUEST

Original (for SUBMISSION)

VIII-4-1	<p>Declaration: Inventorship (only for the purposes of the designation of the United States of America) Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1-1	Prior applications:	60/553,502, US, 16 March 2004 (16.03.2004)

## PCT REQUEST

Original (for SUBMISSION)

		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1-1-1	Name (LAST, First)	GEORGE, Thaddeus, C.
VIII-4-1-1-2	Residence: (city and either US State, if applicable, or country)	Seattle, Washington
VIII-4-1-1-3	Mailing address:	1712 NW 63rd Street Seattle, WA 98107 United States of America
VIII-4-1-1-4	Citizenship:	US
VIII-4-1-1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	

## PCT REQUEST

Original (for SUBMISSION )

VIII-4-1-2-1	Name (LAST, First)	BASIJI, Thaddeus, C.
VIII-4-1-2-2	Residence: (city and either US State, if applicable, or country)	Seattle, Washington
VIII-4-1-2-3	Mailing address:	1712 NW 63rd Street Seattle, WA 98107 United States of America
VIII-4-1-2-4	Citizenship:	US
VIII-4-1-2-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-2-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1-3-1	Name (LAST, First)	HALL, Brian, E.
VIII-4-1-3-2	Residence: (city and either US State, if applicable, or country)	Seattle, Washington
VIII-4-1-3-3	Mailing address:	1121 17th Avenue, Apt. A Seattle, WA 98122 United States of America
VIII-4-1-3-4	Citizenship:	US
VIII-4-1-3-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-3-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	



## PCT REQUEST

Original (for SUBMISSION)

VIII-4-1-4-1	Name (LAST, First)	ORTYN, William, E.
VIII-4-1-4-2	Residence: (city and either US State, if applicable, or country)	Bainbridge Island, Washington
VIII-4-1-4-3	Mailing address:	11546 Matsu Place NE Bainbridge Island, WA 98110 United States of America
VIII-4-1-4-4	Citizenship:	US
VIII-4-1-4-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-4-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1-5-1	Name (LAST, First)	SEO, Michael, J.
VIII-4-1-5-2	Residence: (city and either US State, if applicable, or country)	Mercer Island, Washington
VIII-4-1-5-3	Mailing address:	8120 SE 77th Place Mercer Island, WA 98040 United States of America
VIII-4-1-5-4	Citizenship:	US
VIII-4-1-5-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-5-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	

## PCT REQUEST

Original (for SUBMISSION)

VIII-4-1-6-1	Name (LAST, First)	MORRISSEY, Philip, J.
VIII-4-1-6-2	Residence: (city and either US State, if applicable, or country)	Bellevue, Washington
VIII-4-1-6-3	Mailing address:	4412 153rd Avenue SE Bellevue, WA 98006 United States of America
VIII-4-1-6-4	Citizenship:	US
VIII-4-1-6-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-6-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	
VIII-4-1-7-1	Name (LAST, First)	ZIMMERMAN, Cathleen, A.
VIII-4-1-7-2	Residence: (city and either US State, if applicable, or country)	Bainbridge Island, Washington
VIII-4-1-7-3	Mailing address:	7085 NE Bay Hill Road Bainbridge Island, WA 98110 United States of America
VIII-4-1-7-4	Citizenship:	US
VIII-4-1-7-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-7-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	